

## **FPGA Accelerated Search**

The company produces servers for extremely fast non-indexed data processing and search. The architecture is based on FPGA acceleration. DataArt developed Spark connector, Elasticsearch integration and cluster solution.

## **Solution Highlights:**

## Data platform integration.

DataArt team implemented Spark connectors to let business applications use power of servers using engine for big data processing.

Data Storage. Our team built an extension for Elasticsearch to integrate FPGA capabilities for fuzzy search.

API. DataArt implemented a web portal and cluster wide API engine to access FPGA enabled functionality.

## **Key Figures:**

- 48Tb single server data volume
- 10Gb per second processing speed
- 1TB fuzzy search benchmarking (5-nodes cluster vs 200-nodes Spark cluster)

